

CLAIMS:

1. A shaver including:
 - a shaving head holder (10, 110) carrying at least one shaving head (4; 104) comprising a screen (6) having an internal surface (7), an external surface for contacting a skin to be shaved, and hair-receiving openings (8, 9), and at least one cutter (3) having at least one cutting edge (5) movable along the internal surface (7) of the screen (6), the at least one cutting edge (5) cooperating with the screen (6) for cutting off hairs projecting through the hair-receiving openings (8, 9);
 - a hair chamber (13; 113; 213; 313) behind the hair-receiving openings (8, 9);
 - a drive structure (44; 125) comprising at least one motor (14); and
 - at least one liquid displacement impeller (15; 115; 215; 315) for displacing liquid through the hair chamber (13; 113; 213; 313), the at least one liquid displacement impeller (15; 115; 215; 315) being connected to the drive structure (44; 125) for driving the movement of the impeller (15; 115; 215; 315).
- 15 2. A shaver according to claim 1, wherein the drive structure (44; 125) for driving the movement of the at least one impeller (15; 115; 215; 315) is also connected to the at least one cutter (3) for driving the motion of the cutter (3) along the internal surface (7) of the screen (6).
- 20 3. A shaver according to claim 1 or 2, wherein the impeller or at least one of the impellers (15; 115; 215; 315) and the cutter or at least one of the cutters is suspended for rotation about at least one common axis of rotation (126).
- 25 4. A shaver according to any one of the preceding claims, wherein the at least one impeller (15; 115; 215; 315) is arranged in a pump chamber (127; 227) for displacing liquid through the pump chamber (127; 227) and is movable closely along at least one wall (128, 129) of the pump chamber (127; 227).

5. A shaver according to any one of the preceding claims, further comprising at least one flushing passage (18, 19; 118, 122-124; 219, 230-236; 318, 319) via which the hair chamber (13; 113; 213; 313) communicates with the environment.
- 5 6. A shaver according to claim 5, further comprising at least two flushing passages (18, 19; 118, 122-124; 219, 230-236; 318, 319) via each of which the hair chamber (13; 113; 213; 313) communicates with the environment.
- 10 7. A shaver according to claim 5 or 6, wherein the impeller or at least one of the impellers (15; 115; 215; 315) is arranged for displacing liquid through the at least one flushing passage (18, 19; 118, 122-124; 219, 230-236).
- 15 8. A shaver according to claim 7, wherein the impeller or at least one of the impellers (15; 115; 215; 315) is arranged in the at least one flushing passage (118, 122-124; 231-233).
9. A shaver according to claim 8, wherein the impeller or at least one of the impellers (115) is arranged for pumping liquid out of the hair chamber (113).
- 20 10. A shaver according to claim 9, wherein the at least one flushing passage (122-124) in which the impeller or at least one of the impellers (115) is located has at least one entry area arranged around a drive shaft (125) for driving the at least one cutter (3) into rotation.
- 25 11. A shaver according to any one of the claims 8 to 10, wherein the impeller or at least one of the impellers (215) is arranged for pumping liquid into the hair chamber (213).
- 30 12. A shaver according to claim 11, wherein the hair chamber (213) has at least one peripheral wall (237) bounding the hair chamber (213) along a contour about the at least one shaving head (4; 104), and the at least one flushing passage (231-233) in which the or at least one of the impellers (215) is located has an exit orifice (234-236) aimed closely along the peripheral wall (237) of the hair chamber (213).

13. A shaver according to claim 12, comprising a plurality of said exit orifices (234-236) directed so as to achieve a common sense of circulation.
14. A shaver according to any one of the claims 5 to 13, further comprising at least one closure (345, 346) for closing off the flushing passage or at least one of the flushing passages (318, 319), the at least one closure (345, 346) being displaceable between a closed position for closing off the at least one flushing passage (318, 319) and an open position for allowing liquid to pass through the at least one flushing passage (318, 319).
15. A shaver according to any one of the preceding claims, wherein the flushing passage or at least one of the flushing passages (19) is located in the at least one shaving head (4) and adjacent to the hair-receiving openings (8, 9).
16. A shaver according to claim 15, wherein the at least one impeller (15) is at least partially located in the at least one shaving head (4).
17. A shaver according to claim 16, wherein the at least one impeller (15) is arranged concentrically inside at least a portion of the cutter or at least one of the cutters (3) for displacing liquid against the cutter (3) or at least one of the cutters (3).
18. A shaver according to any one of the preceding claims, wherein the impeller or at least one of the impellers (315) is located in the hair chamber (313) for displacing liquid inside the hair chamber (313).
19. A shaver according to claim 18, comprising at least two of the impellers (315) located in the hair chambers (313), the at least two impellers (315) being connected to a drive structure (44; 125) for driving the at least two impellers (315) in a common sense of rotation.
20. A shaving head (4) comprising:
- a screen (6) for bounding a hair chamber (13), the screen (6) having an internal surface (7), an external surface for contacting a skin to be shaved, and hair-receiving openings (8, 9);
- at least one cutter (3) having at least one cutting edge (5) movable along the internal surface (7) of the screen (6), the at least one cutting edge (5) cooperating with the

screen (6) for cutting off hairs projecting through the hair-receiving openings (8, 9); and
- at least one flushing passage (19) closely adjacent the hair-receiving openings
for allowing liquid to flow between the chamber and an area outside the chamber

5 21. A shaving head according to claim 20, further comprising at least one liquid
displacement impeller (15) for displacing liquid through the at least one flushing passage
(19).

10 22. A shaving head according to claim 21, wherein the at least one impeller (15) is
arranged concentrically inside at least a portion of the cutter or at least one of the cutters (3)
for displacing liquid against the cutter (3) or at least one of the cutters (3).

15 23. A method of cleaning a hair chamber (13; 113; 213; 313) of a shaver (1; 101;
201; 301), the shaver comprising a shaving head holder carrying at least one shaving head (4;
104) comprising a screen (6) having at least an internal surface (7), an external surface for
contacting a skin to be shaved, and hair-receiving openings (8, 9), and at least one cutter (3)
having at least one cutting edge (5) movable along the internal surface (7) of the screen (6),
the at least one cutting edge (5) cooperating with the screen (6) for cutting off hairs
projecting through the hair-receiving openings (8, 9), the hair chamber (13; 113; 213; 313)
20 being located behind the hair-receiving openings (8, 9), wherein liquid is displaced through
the hair chamber (13; 113; 213; 313) by at least one liquid displacement impeller (15; 115;
215; 315) driven by a motorized drive structure (4; 125) of the shaver.